

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Canceled).

Claim 2 (Canceled).

Claim 3 (Currently amended): A method of analyzing a double stranded DNA present in an analyte, which comprises the steps of:

(1) contacting the analyte with a double stranded DNA recognizing substance immobilized on a support,

(2) applying an electric field between the support on which the double stranded DNA recognizing substance is immobilized and the analyte, to direct the double stranded DNA present in an the analyte toward the double stranded DNA recognizing substance immobilized on the support,

(3) applying an electric field in a direction which is opposite to the direction of the electric field applied in step (2), and

(4) measuring the double stranded DNA bound to the double stranded DNA recognizing substance,

wherein the support and the analyte is within the electric field.

Claim 4 (Currently amended): The method of analysis according to claim 1 + 3 wherein the double stranded DNA recognizing substance is a double stranded DNA recognizing antibody.

Claim 5 (Withdrawn): The method of analysis according to claim 1 wherein the double stranded DNA recognizing substance is a DNA transcription factor.

Claim 6 (Withdrawn): The method of analysis according to claim 1 wherein the double stranded DNA recognizing substance is a protein having Zn finger motif or Ring finger motif.

Claim 7 (Withdrawn): The method of analysis according to claim 1 wherein the double stranded DNA recognizing substance is a peptide nucleic acid.

Claim 8 (Currently amended): The method of analysis according to claim 4 3 wherein, in the step of measuring the double stranded DNA bound to the double stranded DNA recognizing substance, an insertion agent which recognizes double stranded DNA is added to a reaction system, and the double stranded DNA present in the analyte is measured by detecting the insertion agent inserted into the double stranded DNA.

Claim 9 (Original): The method of analysis according to claim 8 wherein the insertion agent is a DNA intercalator.

Claim 10 (Original): The method of analysis according to claim 9 wherein the DNA intercalator has an electrochemical activity, and the double stranded DNA present in the analyte is measured by detecting the DNA intercalator by electrochemical means.

Claim 11 (Original): The method of analysis according to claim 9 wherein the DNA intercalator is detected by a fluorescence, luminescence or surface plasmon method.